15

WHAT IS CLAIMED IS:

(1 post)

- 1. A method of correcting data representing abrupt intensity gradient within a predetermined set of sampled areas, comprising the acts of:
 - a) determining a direction of the abrupt intensity gradient;
 - b) determining a set of correction coefficients based upon the direction; and
 - c) correcting the data using the coefficients.
- 2. The method of correcting data according to claim 1 wherein the abrupt intensity gradient is stripes.
 - 3. The method of correcting data according to claim 2 wherein the direction of the stripes is horizontal.
 - 4. The method of correcting data according to claim 2 wherein the direction of the stripes is vertical.
- 5. The method of correcting data according to claim 1 wherein the sampled areas are covered by a planar array of color area image sensors.
 - 6. The method of correcting data according to claim 1 wherein the color area image sensors generate primary colors.
- 7. The method of correcting data according to claim 6 wherein for each of the primary colors, the set of correction coefficients is selected based upon the direction of the abrupt intensity gradient.
- 8. The method of correcting data according to claim 7 wherein the direction includes a vertical type and a horizontal type.

9. The method of correcting data according to claim 8 wherein the set of correction coefficients is selected additionally based upon a pattern of the planar array of the color area image sensors.

(X) 1 m 1/2 10. The method of correcting data according to claim 7 wherein the direction includes a vertical type, a horizontal type and an all-other type.

- 11. The method of correcting data according to claim 9 wherein the direction is continuous.
 - 12. A system for correcting data representing abrupt intensity gradient within a predetermined set of sampled areas, comprising:

a direction determination unit for determining a direction of the abrupt intensity gradient;

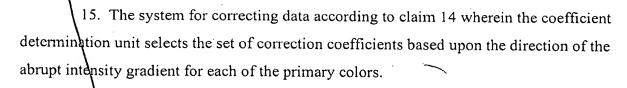
a coefficient determination unit connected to the direction determination unit for determining a set of correction coefficients based upon the direction; and

a data correction unit connected to the coefficient determination unit for correcting the data using the coefficients.

20

15

- 13. The system for correcting data according to claim 12 wherein the direction determination unit detects the direction of the abrupt intensity gradient including vertical stripes and horizontal stripes.
- 25 14. The system for correcting data according to claim 12 further includes a planar array of color area image sensors for generating signals representing primary colors in the sampled areas.



Come

10

15

20

- 16. The system for correcting data according to claim 15 wherein the direction determination unit determines a vertical type and a horizontal type.
- 17. The system for correcting data according to claim 16 wherein the coefficient determination unit selects the set of correction coefficients additionally based upon a pattern of the planar array of the color area image sensors.
- 18. The system for correcting data according to claim 16 wherein the direction determination unit determines a vertical type, a horizontal type and an all-other type.
- 19. The system for correcting data according to claim 15 wherein the direction determination unit determines the direction in a continuous angle.
- 20. A medium containing computer instructions performing a task of correcting data representing abrupt intensity gradient within a predetermined set of sampled areas, comprising the acts of:

determining a direction of the abrupt intensity gradient including stripes, the sampled areas being covered by a planar array of color area image sensors, the color area image sensors generating primary colors;

determining a set of correction coefficients based upon the direction; and correcting the data using the coefficients.

25